

# Project Management with Agile



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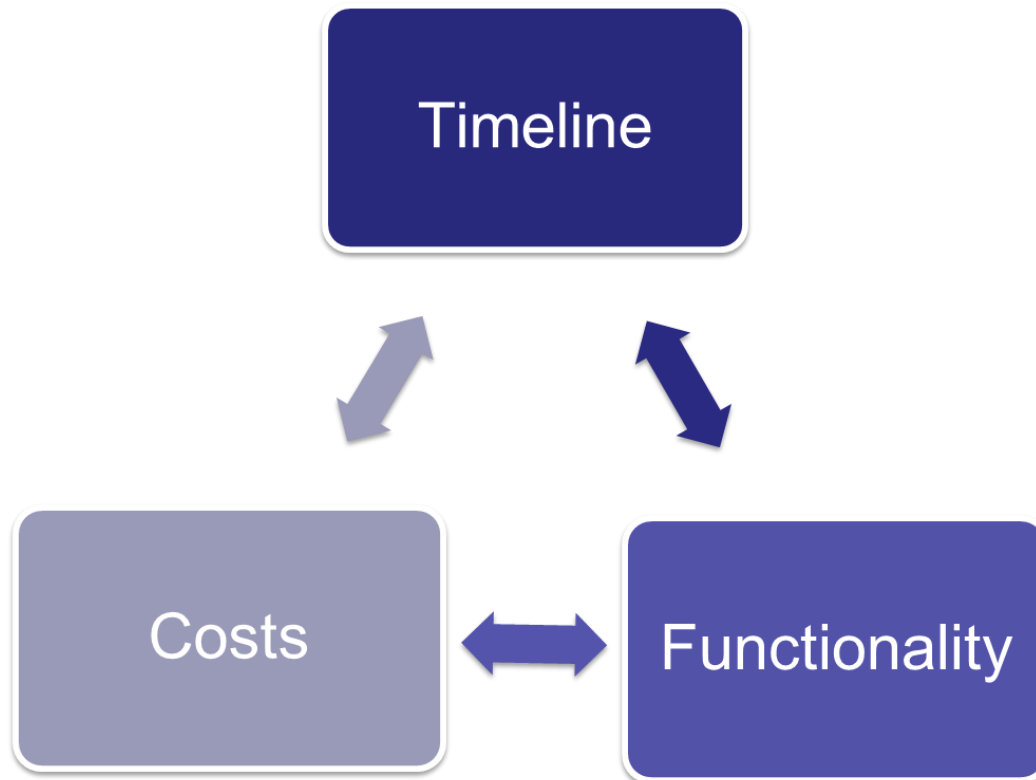
# Agile Introduction

**Gold Systems switched from Waterfall to Agile in 2005.  
We wanted to address the challenges of:**

- Change Control – “I’ll know it when I see it”
- Managing Risk – Contractual obligations and change
- Morale - Heroic acts by staff to complete projects
- Timeline, functionality, costs quandary

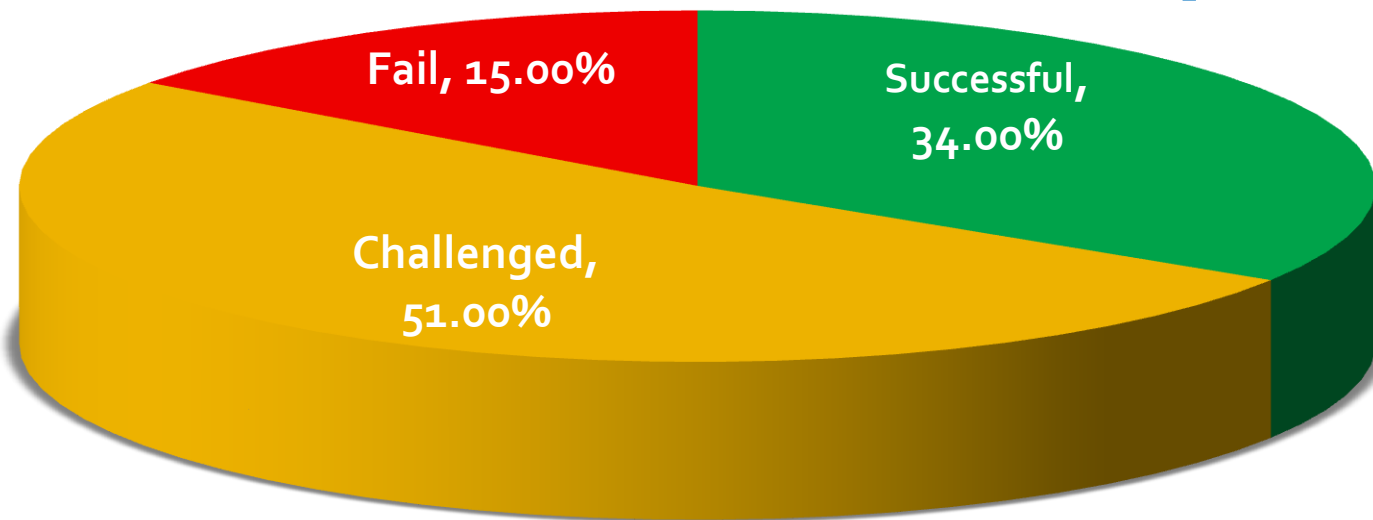
# Agile Introduction

## The Project Management Dilemma:



# Agile Introduction

Software development interfaces with the most complex operating systems on the planet: **People**



\* The Standish Group, 10th Annual CHAOS Report



How the customer explained it



How the project leader understood it



How the engineer designed it



How the programmer wrote it



How the sales executive described it



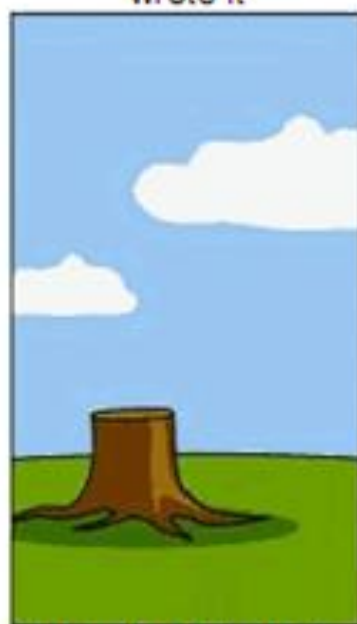
How the project was documented



What operations installed



How the customer was billed



How the helpdesk supported it



What the customer really needed



# Manifesto for Agile Software Development

We are uncovering better ways of developing software by doing it and helping others do it.  
Through this work we have come to value:

Individuals and interactions over processes and tools  
Working software over comprehensive documentation  
Customer collaboration over contract negotiation  
Responding to change over following a plan

That is, while there is value in the items on the right, we value the items on the left more.

Kent Beck  
Mike Beedle  
Arie van Bennekum  
Alistair Cockburn  
Ward Cunningham  
Martin Fowler

James Grenning  
Jim Highsmith  
Andrew Hunt  
Ron Jeffries  
Jon Kern  
Brian Marick

Robert C. Martin  
Steve Mellor  
Ken Schwaber  
Jeff Sutherland  
Dave Thomas







# Benefits of Agile

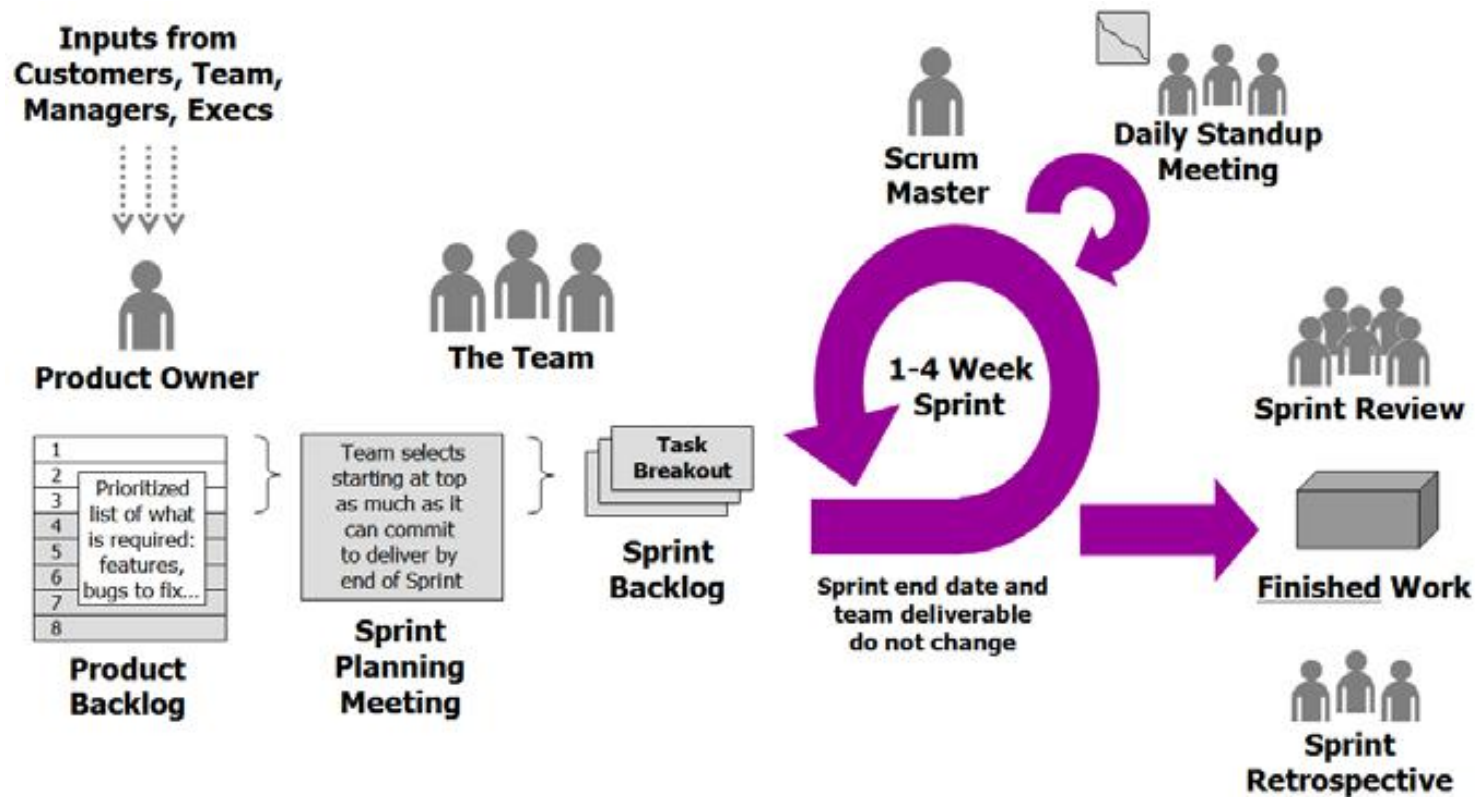
## The Core of Agile Development:

### Scrum

- **Self-organizing teams** – team members select tasks
- **Accountability** - daily standup meeting, daily measurement, peer pressure
- **Quick delivery** – iterations, demonstrations
- **Flexibility** – welcome change, understandable change control processes
- **Streamlined artifacts** – prototypes and backlogs



# Agile Introduction



# Benefits of Agile

## Results

- Improvement in cost management
- Projects match client desires upon completion
- Results still highly depend on client support
- Client support and understanding in managing costs
- We found you can hybrid approach methods

*"At regular intervals, the team reflects on how to become more effective, then tunes and adjusts its behavior accordingly."*

\* <http://www.agilemanifesto.org/principles.html>

# Challenges of Agile

## **Demands Participation**

Engaged vs. non-engaged Product Owner

## **Rigid Contract or Project Requirements**

Agile needs flexibility to be effective

## **Desire for Extensive Project Documentation**

Agile uses prototypes quite often for documentation of requirements

## **Scalability Team size**

It's very hard to grow Agile teams larger than 7-8 people

**Agile Requires Cultural Change** – Without participant “buy in” Agile will fail as a methodology



# Challenges of Agile

## **Maintenance vs. New Development**

Agile as a methodology struggles in projects that have gone into a “maintenance” mode.

# Agile and the PM

## Scrum Master vs. PM

Our Experience: **You need both!**

**Scrum Master** - Manages the technical direction of the team and removes architectural hurdles (protects team).

**Project Manager** -Manages the product owner's expectations, product budget, and removes political hurdles (protects client).

**Both** - Manage the commitment to timeline and features.

# Burndown Chart

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-05 13:38

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modification - 11-04-05 14:34

list at an event with no sea

[FAA - Future Projects] SPANS - 09-28-05 14:43

[FAA] Event/Notice Creation/Modification - 11-04-05 08:37

Modify registry import process

more directly and better, or change to run monthly instead of weekly. We'll discuss when we get to it.

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28

4 2

9 2

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# Case Studies

## VITAL RECORDS

- Modular technology upgrades
- Feature driven iterations
- Client access to issue tracking



## MONTANA STATE FUND

- Release plans, change control
- Visual flows
- Proxy Product Owner



# Summary

Discussion Questions:

What is Agile?

What are the benefits and challenges?

What does the PM do in Agile?

Is Agile appropriate for all project types?

# Q & A



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